

Title (en)

HEARING PROTECTOR AND A METHOD OF MAKING A HEARING PROTECTOR

Title (de)

GEHÖRSCHUTZ UND VERFAHREN ZUR HERSTELLUNG EINES GEHÖRSCHUTZES

Title (fr)

DISPOSITIF DE PROTECTION AUDITIVE ET PROCÉDÉ DE FABRICATION ASSOCIÉ

Publication

EP 3228290 A1 20171011 (EN)

Application

EP 16164349 A 20160408

Priority

EP 16164349 A 20160408

Abstract (en)

A hearing protector (1) having an ear cup (11) forming a space for a wearer's ear. The ear cup has a shell (13) with an ear facing inner side (22) and a passageway (26) extending through the shell between the ear facing inner side and an outer side (16) of the shell. The ear cup further has a loudspeaker assembly (30) which seals the passageway from the outer side. The loudspeaker assembly further has a seal member (18) and a loudspeaker module (17). A portion of the seal member is arranged between the shell and a fastener (25), and the fastener retains the loudspeaker assembly at the shell. The hearing protector facilitates manufacturing and maintenance and provides for maximize wearing comfort and technical reliability.

IPC 8 full level

A61F 11/14 (2006.01)

CPC (source: EP US)

A61F 11/14 (2013.01 - EP US); **H04R 1/1008** (2013.01 - EP US); **H04R 1/1058** (2013.01 - EP US); **H04R 1/1083** (2013.01 - EP US); **A61F 11/145** (2022.01 - US); **H04R 1/1041** (2013.01 - EP US); **H04R 2430/01** (2013.01 - EP US)

Citation (applicant)

WO 2006058319 A1 20060601 - CABOT SAFETY INTERMEDIATE CORP [US], et al

Citation (search report)

- [X] WO 2005051255 A1 20050609 - PELTOR AB [SE], et al
- [A] EP 2677766 A2 20131225 - HELLBERG SAFETY AB [SE]

Cited by

US2022062056A1; US12029628B2; US11369521B2; WO2018150351A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3228290 A1 20171011; BR 112018070674 A2 20190205; CN 109069299 A 20181221; CN 109069299 B 20210205; EP 3439597 A1 20190213; US 10639201 B2 20200505; US 10792190 B2 20201006; US 2019110930 A1 20190418; US 2020246189 A1 20200806; WO 2017177039 A1 20171012

DOCDB simple family (application)

EP 16164349 A 20160408; BR 112018070674 A 20170406; CN 201780022309 A 20170406; EP 17717314 A 20170406; US 2017026403 W 20170406; US 201716090293 A 20170406; US 202016838486 A 20200402